

Jonah Interagency Office



Pinedale Anticline Project Office

Sage-Grouse

2011 Monitoring Update

Pinedale Anticline Project Office

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Wyoming Game and Fish Department



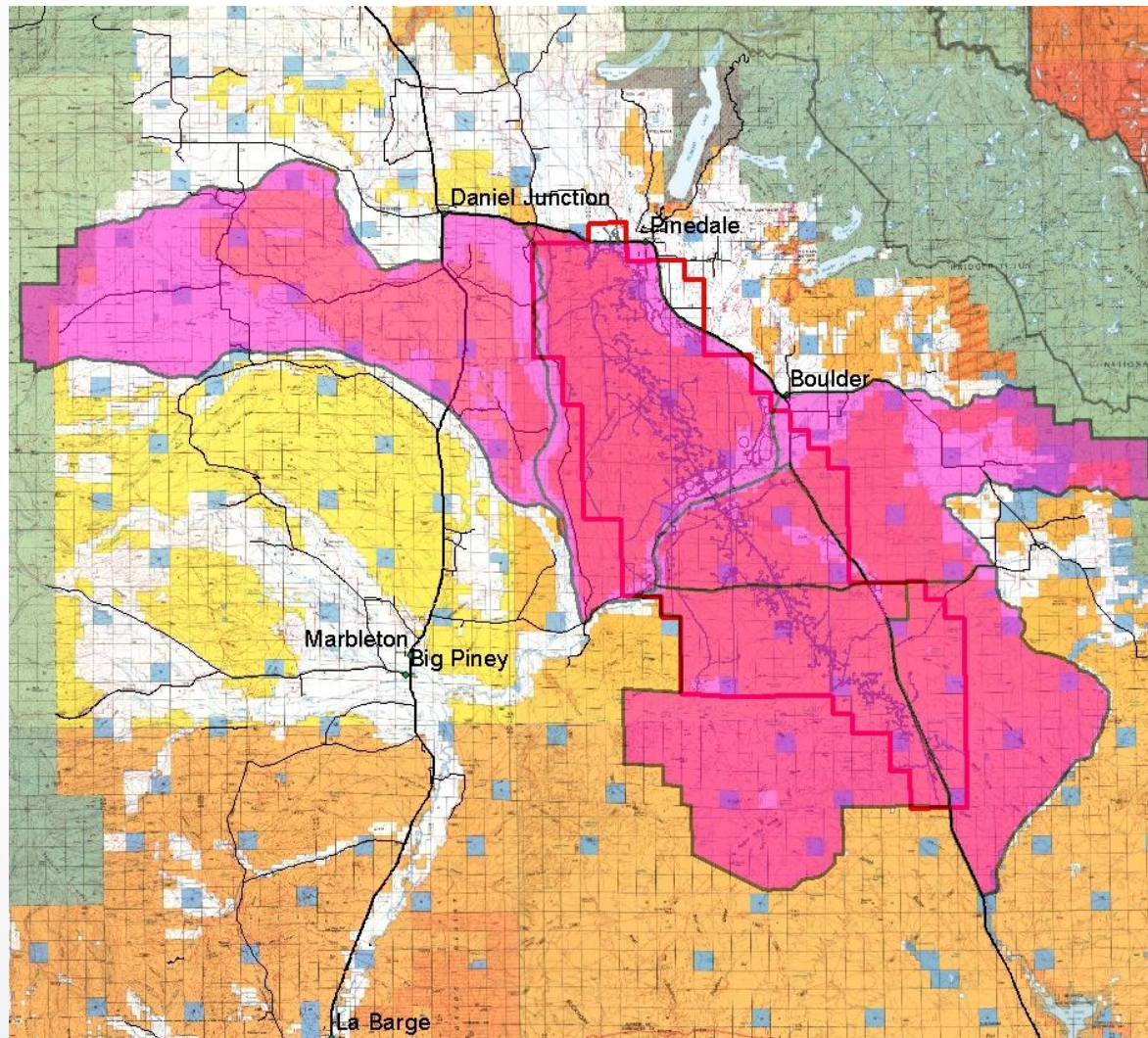
Record of Decision

Monitoring Requirements

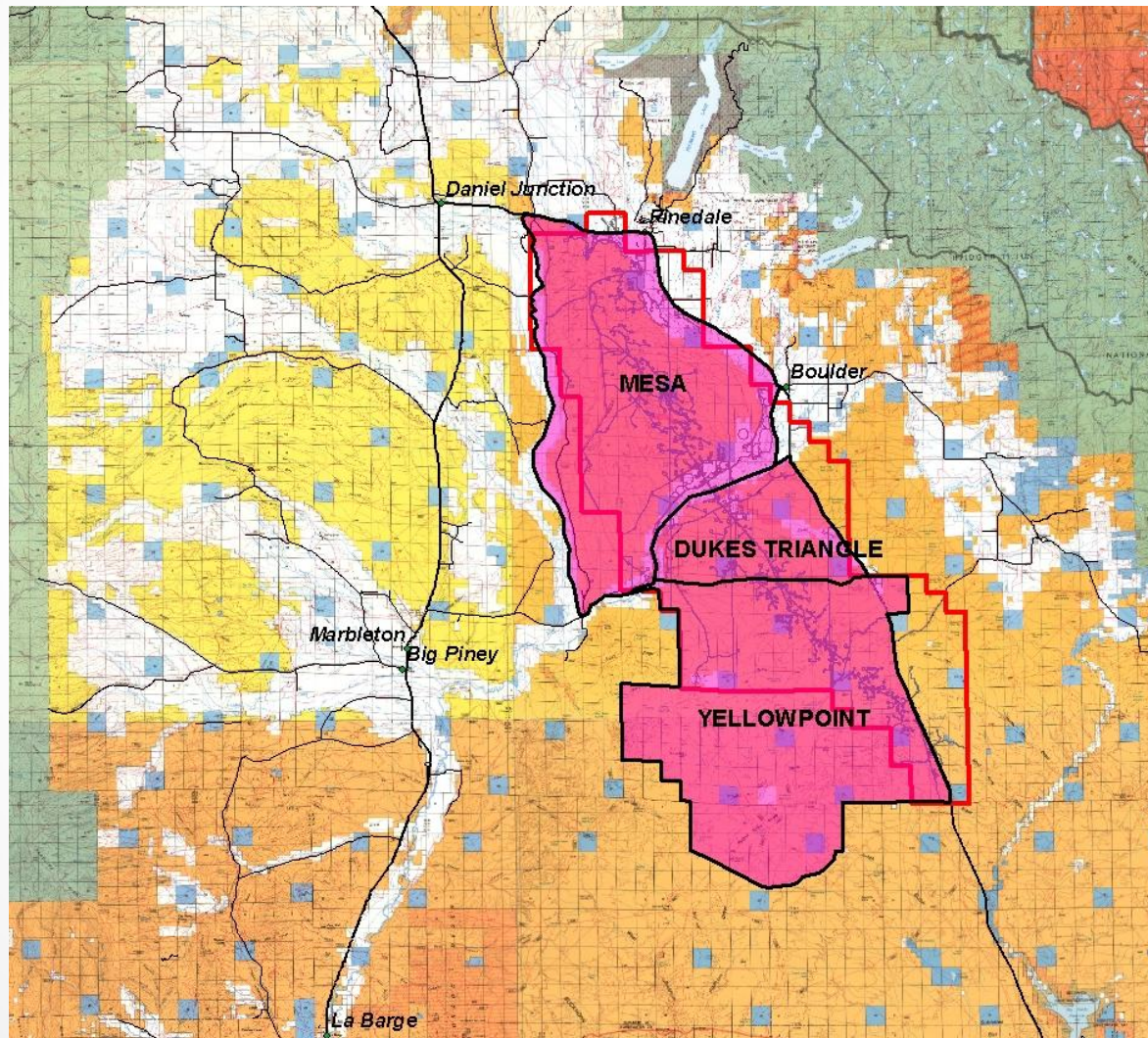
Criteria to be monitored

- Number of active leks in identified lek complexes
 - *Total number of active leks in all treatment complexes combined or*
 - *Number of active leks in a single complex*
- Peak numbers of males attending lek complexes
- Nesting success and habitat selection
- Winter concentration area use
- Noise levels

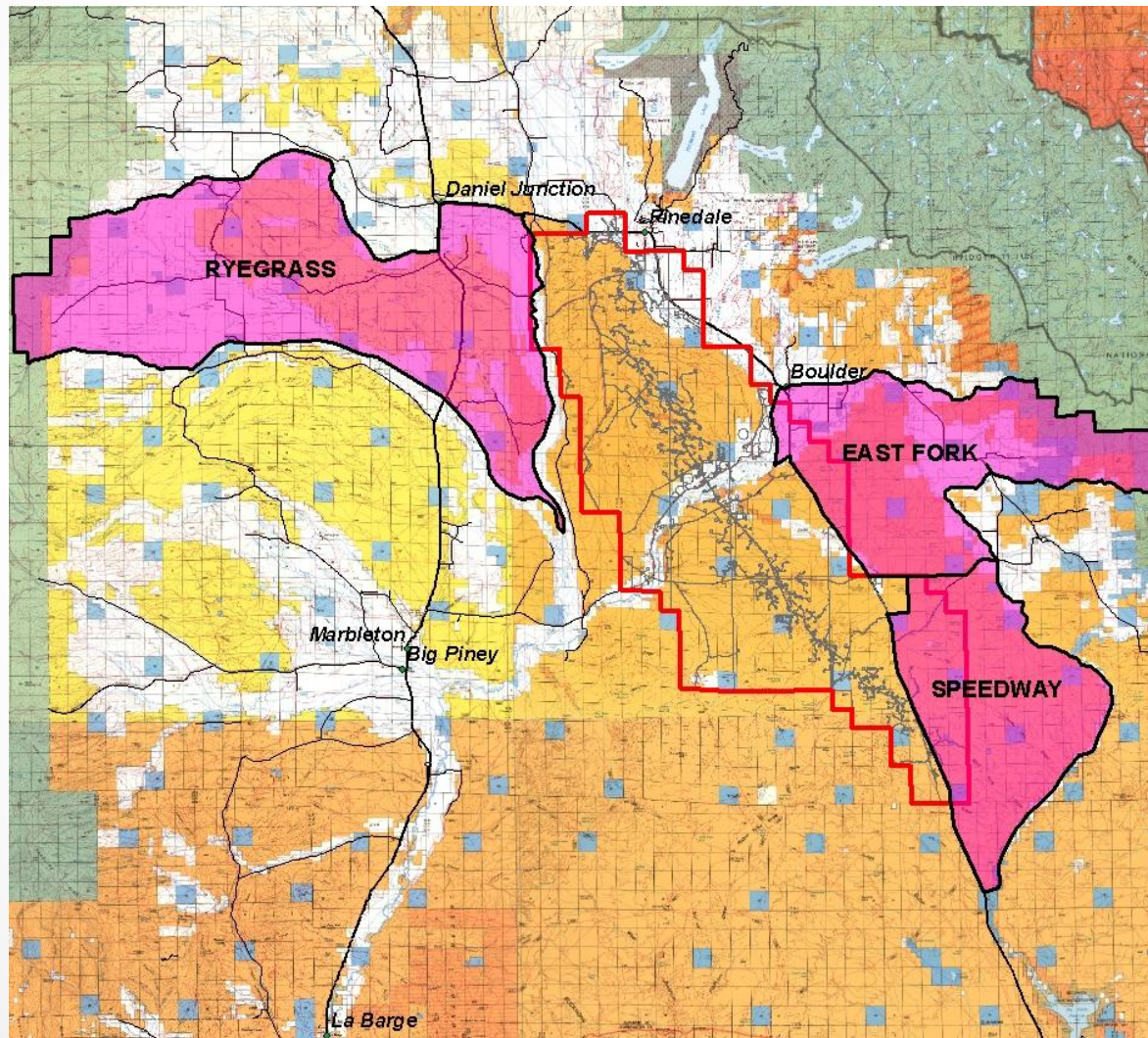
Area Complexes Monitored



Treatment Areas



Reference Areas



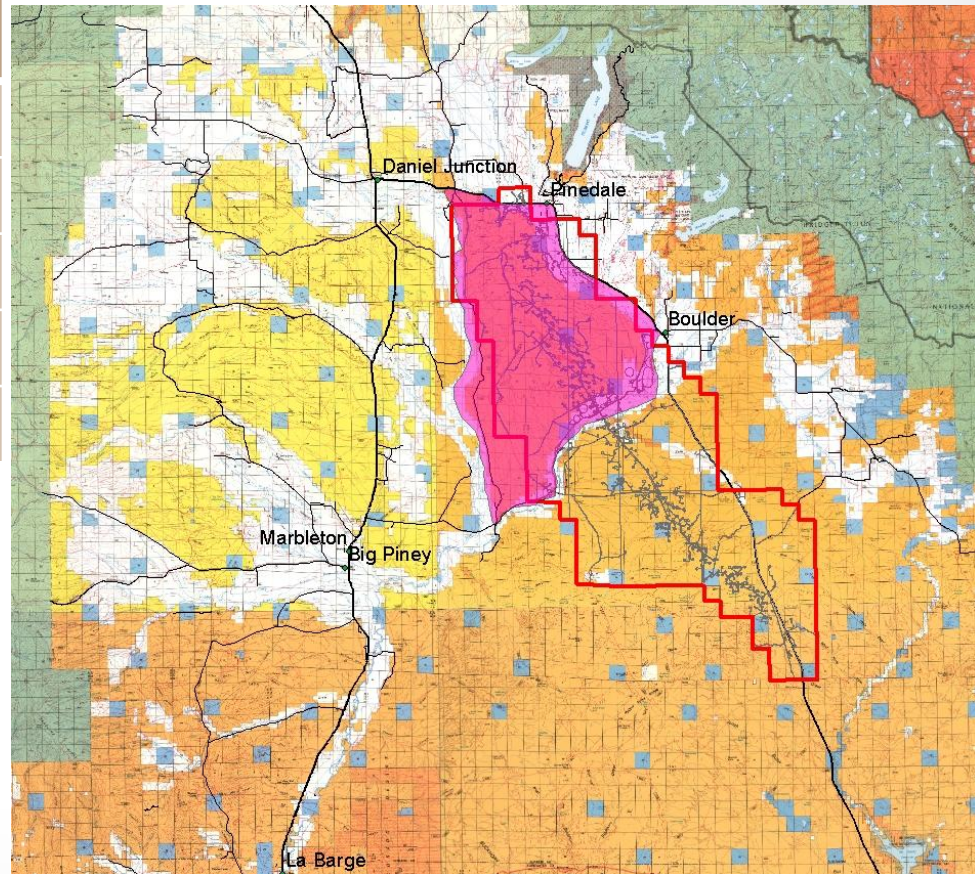
Number of Active Leks in Identified Complexes



Number of Active Leks Within a Single Complex

Mesa

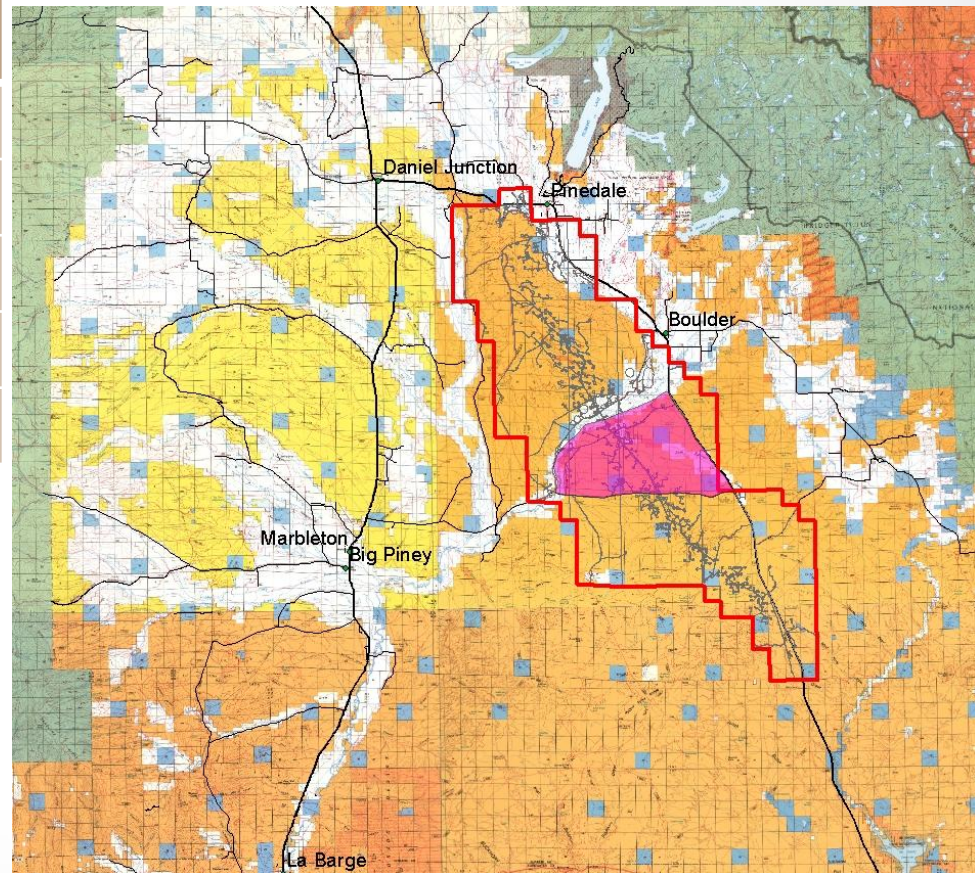
Year	Number of Active Leks	% CHANGE in active leks compared to 2007
2007	6	
2008	6	0%
2009	6	0%
2010	6	0%
2011	7	17%



Number of Active Leks Within a Single Complex

Duke's Triangle

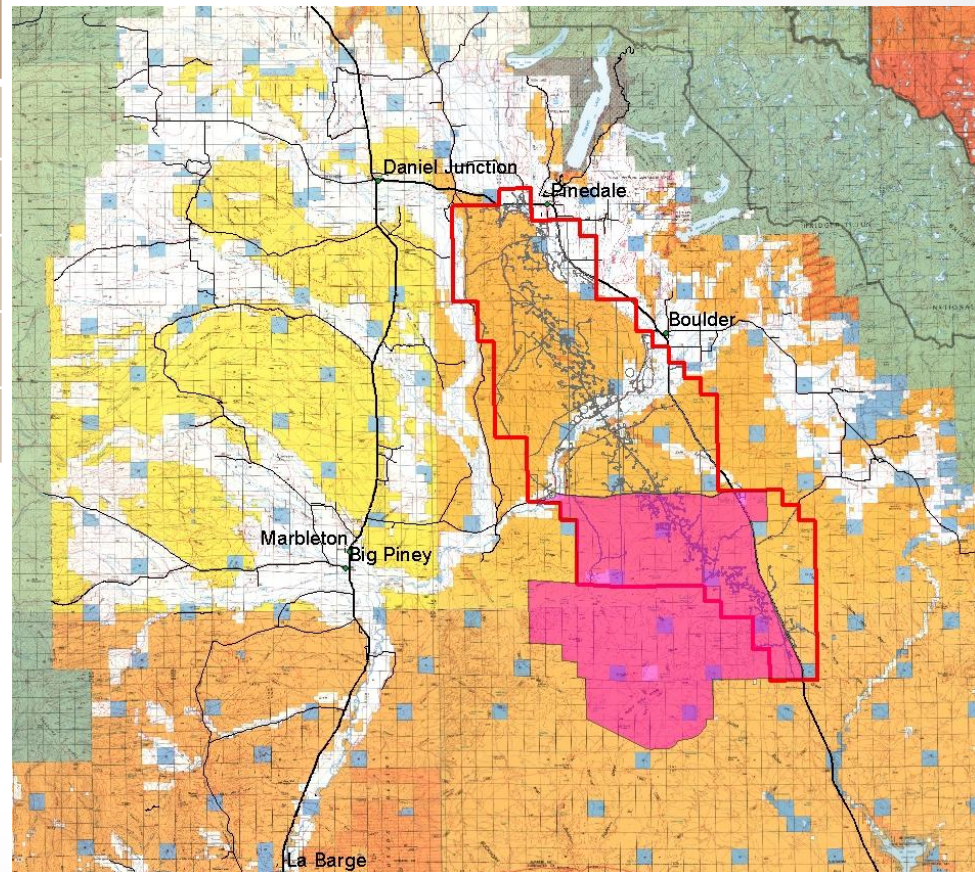
Year	Number of Active Leks	% CHANGE in active leks compared to 2007
2007	2	
2008	3	50.0%
2009	1	-50.0%
2010	2	0.0%
2011	2	0.0%



Number of Active Leks Within a Single Complex

Yellow Point

Year	Number of Active Leks	% CHANGE in active leks compared to 2007
2007	8	
2008	7	-13%
2009	6	-25%
2010	7	-13%
2011	6	-25%



Treatment Area

Total Number of All Active Leks

	Number of Active Leks	% CHANGE in active leks compared to 2007
2007	16	
2008	16	0%
2009	13	-19%
2010	15	-6%
2011	15	-6%

New Lek Searches



Peak Number of Males Attending a Lek



Ryegrass Complex –Reference Area

	Complex Annual Total	2 year average	% CHG male attendance (current year compared to previous 2-yr average)
2003	51		
2004	101	76	
2005	373	237	391%
2006	456	415	92%
2007	687	572	66%
2008	598	643	5%
2009	726	662	13%
2010	545	636	-18%
2011	555		-13%

Ryegrass Complex –Reference Area

	Complex Annual Total	2 year average	% Change in male attendance (current year compared to previous 2-yr average)
2003	51		
2004	101	76	
2005	373	237	391%
2006	456	415	92%
2007	687	572	66%
2008	598	643	5%
2009	726	662	13%
2010	545	636	-18%
2011	555		-13%

Speedway Complex –Reference Area

	Complex Annual Total	2 year average	% Change in male attendance (current year compared to previous 2-yr average)
2003	362		
2004	443	403	
2005	682	563	69%
2006	882	782	57%
2007	934	908	19%
2008	819	877	-10%
2009	611	715	-30%
2010	467	539	-35%
2011	350		-35%

East Fork Complex –Reference Area

	Complex Annual Total	2 year average	% Change in male attendance (current year compared to previous 2-yr average)
2003	149		
2004	155	152	
2005	183	169	20%
2006	226	205	34%
2007	274	250	34%
2008	251	263	0%
2009	213	232	-19%
2010	142	178	-39%
2011	NA		NA%

Mesa Complex –Treatment Area

	Complex Annual Total	2 year average	% Change in male attendance (current year compared to previous 2-yr average)
2003	270		
2004	193	232	
2005	391	292	69%
2006	576	484	97%
2007	539	558	11%
2008	490	515	-12%
2009	438	464	-15%
2010	329	384	-29%
2011	339		-12%

Dukes Triangle Complex Treatment Area

	Complex Annual Total	2 year average	% Change in male attendance (current year compared to previous 2-yr average)
2003	53		
2004	34	44	
2005	39	37	-10%
2006	28	34	-23%
2007	34	31	1%
2008	38	36	23%
2009	13	26	-64%
2010	48	31	88%
2011	27		-11%

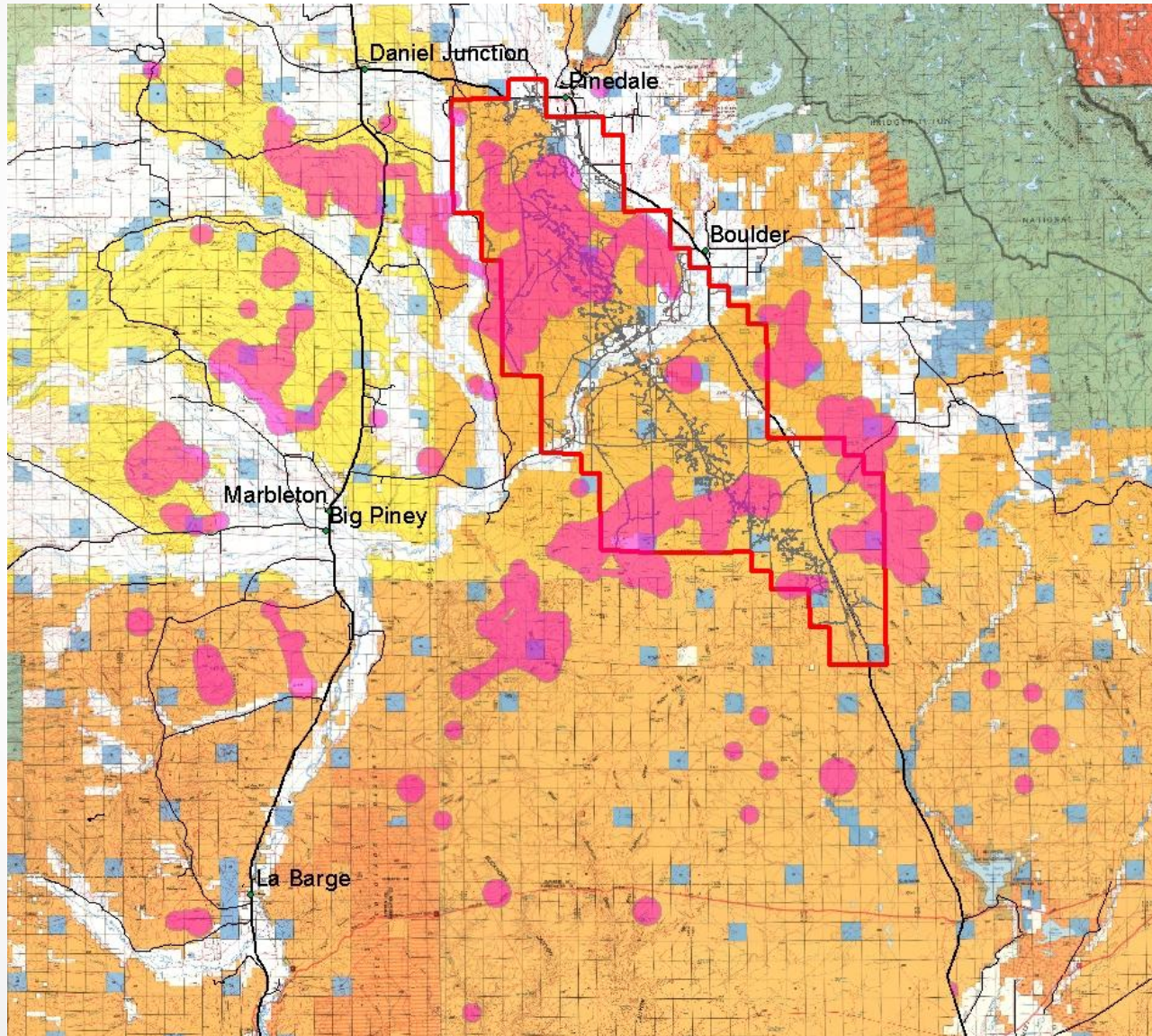
Yellow Point Complex – Treatment Area

	Complex Annual Total	2 year average	% Change in male attendance (current year compared to previous 2-yr average)
2003	123		
2004	79	101	
2005	145	112	44%
2006	236	191	111%
2007	286	261	50%
2008	220	253	-16%
2009	173	197	-32%
2010	167	170	-15%
2011	119		-30%

Male Lek Attendance Comparison

Treatment Area	% Change in male attendance	Reference Area	% Change in male attendance
Mesa	-12	Ryegrass	-13
Dukes Triangle	-11	East Fork	NA
Yellow point	-30	Speedway	-35

Winter Concentration Areas



Noise Monitoring



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